

SEQUENCE LISTING

(1) GENERAL INFORMATION

(i) APPLICANT: Elizabeth Frayne

(ii) APPLICANT ADDRESS: 2027 Galvin Ln. #1

(iii) TITLE OF INVENTION: Microbial Production of Nuclease Resistant DNA, RNA, and Oligo Mixtures

(iv) NUMBER OF SEQUENCES: 2

(v) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Frayne Consultants
- (B) STREET: 1249 S. Diamond Bar Blvd. #125
- (C) CITY: Diamond Bar
- (D) STATE: California
- (E) COUNTRY: USA
- (F) ZIP: 91765

(iv) COMPUTER READABLE FORM

- (A) MEDIUM TYPE: Diskette, 3.50 inch 1.2 KB
- (B) COMPUTER: IBM
- (C) OPERATING SYSTEM: Windows 98
- (D) SOFTWARE: Microsoft Word

(vii) CURRENT APPLICATION DATA

- (A) APPLICATION NUMBER:
- (B) FILING DATE:
- (C) CLASSIFICATION: 435/41,435/71, 435/91, 435/131, 435/154, 435/172, 435/183; 935, 536/27

(viii) PRIOR APPLICATION DATA:

- (A) APPLICATION (PROVISIONAL) NUMBER: 60/100,231
- (B) FILING DATE: 9/14/98
- (C) APPLICATION (PROVISIONAL) NUMBER: 60/152,371
- (D) FILING DATE: 9/07/99

(ix) TELECOMMUNICATION INFORMATION

- (A) TELEPHONE: (909)861-2111/860-7415
- (B) EMAIL: egfrayne@cs.com

(2) INFORMATION FOR SEQ ID NO.1:

(i) SEQUENCE CHARACTERISTICS

- (A) LENGTH: 22 bp
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

105007488001

(ii) MOLECULE TYPE:  
(A) DESCRIPTION: oligonucleotide

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

(v) ORIGINAL SOURCE:  
(A) ORGANISM: *Saccharomyces cerevisiae*  
(B) STRAIN: YFLO39C genomic clone

(vi) PUBLICATION INFORMATION:  
(A) AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T., Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K., Yamazaki M., Tashiro H., Eki T.  
(B) TITLE: Analysis of the nucleotide sequence of chromosome VI from *Saccharomyces cerevisiae*.  
(C) JOURNAL: *Nature Genet.*  
(D) VOLUME: 10  
(C) PAGES: 261-268  
(D) DATE: 1995  
(E) RELEVANT RESIDUES IN SEQ ID NO. 1: 10-31

(vii) SEQUENCE DESCRIPTION: SEQ ID NO. 1:

GAGGTTGCTG CTTGGTTAT TG

(3) INFORMATION FOR SEQ ID NO. 2:

(i) SEQUENCE CHARACTERISTICS  
(E) LENGTH: 22 bp  
(F) TYPE: nucleic acid  
(G) STRANDEDNESS: single  
(H) TOPOLOGY: linear

(ii) MOLECULE TYPE:  
(B) DESCRIPTION: oligonucleotide

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

(v) ORIGINAL SOURCE:  
(F) ORGANISM: *Saccharomyces cerevisiae*  
(G) STRAIN: YFLO39C genomic clone

(vi) PUBLICATION INFORMATION:  
(A) AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T., Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K., Yamazaki M., Tashiro H., Eki T.